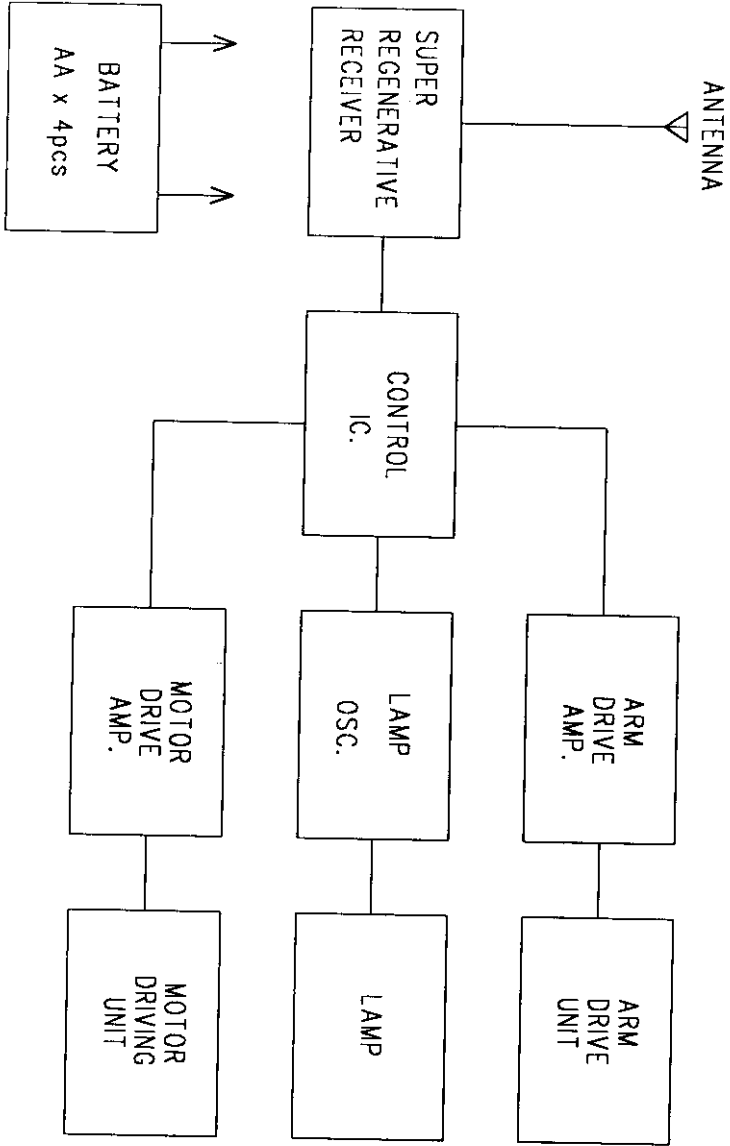


PCB:NO.RP3300 RECEIVER BLOCK DIAGRAM

FCC ID :CVTRP3300H



## RP3300 CIRCUIT EXPLANATION

(FCC ID:CVTRP3300H)

1)The Radio Frequency inputted through The ANT.,is passed to the Super regenerative receiver,formed by TR1,where the Action Signal is detected.

2)The Action Signal is decode in the Ic.,and are send to each output terminal.

3)TR2,3,4 and 6 form the power motor drive control circuit.

TR8 and 9 form the steering control circuit.

TR10 and 11 form the LAMP drive oscillator.

4)Forward motion

IC.8P(Pin) is turned Hi,and TR3 and 6 are turned on to make a Forward drive.

5)Backward motion

IC.11P is turned Hi,and TR2 and 4 are turned on to make a backward drive.

6)Arm motion

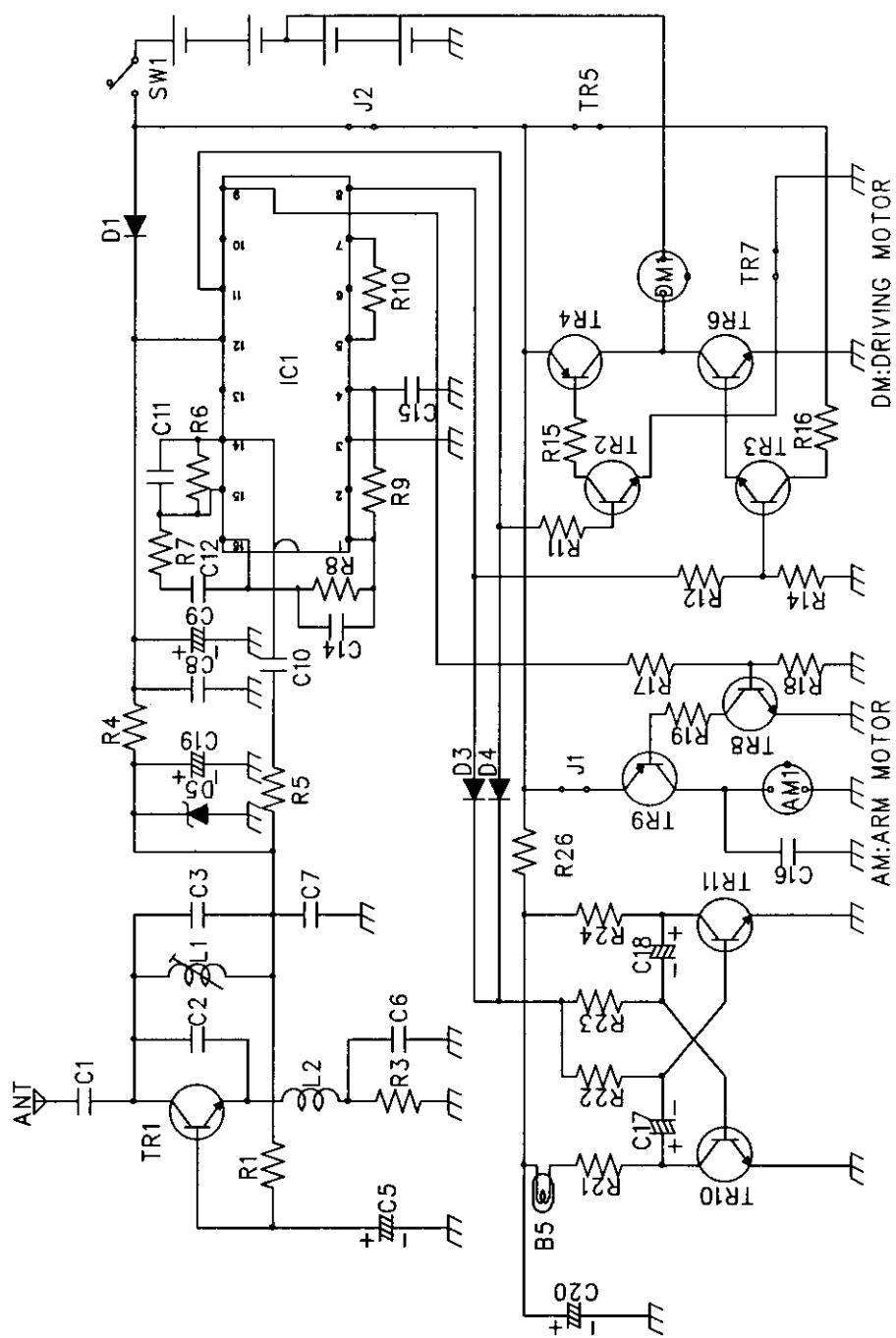
IC.9 is turned Hi,and TR8 and 9 are turned on to make a Arm motion.

7)LAMP brinking

The LAMP blink during forward or backward.

NIKKO CO.,LTD.

  
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R&D Dept. CHIEF Y.MAEDA



FCC ID:CVTRP3300H NO.RP3300 CIRCUIT DIAGRAM 1999.12.22 MM.

# NO. RP3300 PCB PARTS LIST

FILE NO: RP3300

FCC ID : CVTRP3300H

2000.1.13

| NO. | DESCRIPTION | CODE | PARTS NAME                         | NOTE |
|-----|-------------|------|------------------------------------|------|
| 1   | I.C.        | IC1  | PT8A976AP(Pericom Technology Inc.) |      |
| 2   | TRANSISTOR  | TR1  | 2SC380-0                           |      |
| 3   |             | TR2  | 2SC945Q or equivalent              |      |
| 4   |             | TR3  | 2SC945Q or equivalent              |      |
| 5   |             | TR4  | KTA1271 or equivalent              |      |
| 6   |             | TR5  | 0 ohm(Between B-E)                 |      |
| 7   |             | TR6  | KTC3203 or equivalent              |      |
| 8   |             | TR7  | 0 ohm(Between B-E)                 |      |
| 9   |             | TR8  | 2SC945Q or equivalent              |      |
| 10  |             | TR9  | KTA1271 or equivalent              |      |
| 11  |             | TR10 | KTC3203 or equivalent              |      |
| 12  |             | TR11 | KTC3203 or equivalent              |      |
| 13  | DIODE       | D1   | 270 ohm                            |      |
| 14  |             | D3   | 1N4148 or equivalent               |      |
| 15  |             | D4   | 1N4148 or equivalent               |      |
| 16  |             | D5   | 3.3V(ZENER)                        |      |
| 17  | RESISTOR    | R1   | 150K                               |      |
| 18  |             | R3   | 680                                |      |
| 19  |             | R4   | 0 ohm                              |      |
| 20  |             | R5   | 2.2K                               |      |
| 21  |             | R6   | 2.2M                               |      |
| 22  |             | R7   | 2.2K                               |      |
| 23  |             | R8   | 2.2M                               |      |
| 24  |             | R9   | 2.2K                               |      |
| 25  |             | R10  | 560K                               |      |
| 26  |             | R11  | 8.2K                               |      |
| 27  |             | R12  | 8.2K                               |      |
| 28  |             | R15  | 390                                |      |
| 29  |             | R16  | 470                                |      |
| 30  |             | R17  | 10K                                |      |
| 31  |             | R18  | 22K                                |      |
| 32  |             | R19  | 470                                |      |
| 33  |             | R21  | 22(1/4W)                           |      |
| 34  |             | R22  | 8.2K                               |      |
| 35  |             | R23  | 8.2K                               |      |
| 36  |             | R24  | 4.7K                               |      |
| 37  |             | R25  | 2.2K                               |      |
| 38  |             | R26  | 10                                 |      |
| 39  | CAPACITOR   | C1   | 10p(C)                             |      |
| 40  |             | C2   | 33p(C)                             |      |
| 41  |             | C3   | 5p(C)                              |      |
| 42  |             | C5   | 4.7(E)                             |      |
| 43  |             | C6   | 222(M)                             |      |
| 44  |             | C7   | 223(M)                             |      |
| 45  |             | C8   | 104(C)                             |      |
| 46  |             | C9   | 220(E)                             |      |
| 47  |             | C10  | 104(C)                             |      |
| 48  |             | C11  | 471(C)                             |      |
| 49  |             | C12  | 104(C)                             |      |
| 50  |             | C14  | 33p(C)                             |      |
| 51  |             | C15  | 102(M)                             |      |
| 52  |             | C16  | 473(C)                             |      |
| 53  |             | C17  | 33(E)                              |      |
| 54  |             | C18  | 33(E)                              |      |
| 55  |             | C19  | 100(E)                             |      |
| 56  |             | C20  | 220(E)                             |      |
| 57  | INDUCTOR    | L1   | S065                               |      |
| 58  |             | L2   | SP 3.3uH                           |      |
| 59  | JUMPER      | J1   | 0 ohm                              |      |
| 60  |             | J2   | 0 ohm                              |      |
| 61  | EXTRA PARTS | EPT  | PCB:NO. RP3300                     |      |

RESISTOR: No mark=1/6W,  $\pm 5\%$  INDUCTOR: 100mA,  $\pm 10\%$

CAPACITOR (C): Ceramic, 50WV, +80-20% (T): Tantalum, 35WV,  $\pm 10\%$

(M): Mylar, 50WV[No mark=K, rank( $\pm 10\%$ ), J, rank( $\pm 5\%$ )]

(E): Electrolytic, 16WV,  $\pm 20\%$  (N): Non pole Electrolytic, 16WV,  $\pm 20\%$